Inventions & Innovation Emerging Technology

Method for Cutting Steam Losses During Cyclic Steam Injection of Wells

When operated in the sequential cyclic steam injection mode, the new system injects steam into the reservoir to reduce the viscosity of heavy oil so that it flows from the wells at economic rates. In this mode, one of the laterals is under steam injection (at a relatively high pressure), while the other is under pumping (at a very low suction pressure). After the steam is injected into one drain hole for a period of time, the well starts to produce oil. Conversely, the other drain hole, originally under production, is converted to steam injection. The steam and production tubing are in proximity to minimize heat losses from the tubing carrying steam to the formation.

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